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## PATENT ABSTRACTS OF JAPAN

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### (54) METHOD FOR STERILELY DETECTING LEAK OF HOLLOW YARN- TYPE MODULE

(57) Abstract:

**PURPOSE:** To directly detect a leak while a module is fitted in a liq. treating device by making the cap part of the hollow yarn-type module transparent, sending sterile air from the outside of the hollow yarn, and detecting the bubbles of leaking air through the transparent cap.

**CONSTITUTION:** In the hollow yarn module incorporated in the device for treating a comparatively clear liq., the transparent cap 9 is provided on the end of the module. When a liq. is not treated, the pressure on the inside of the hollow yarn 1 is turned off, sterile air is sent to the outside of the hollow yarn from a sterile air supply source 8 provided to a permeated water pipeline 7 communicating with the outer space of the hollow yarn, and the pressure on the outside of the

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hollow yarn is kept higher than the pressure on the inside of the hollow yarn. The air emerging from the end of a leaking hollow yarn into the processing soln. as small bubbles can be seen from the outside through the transparent cap 9 and the processing soln., and leaks can be directly detected.

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